

=> d his nofile

(FILE 'HOME' ENTERED AT 10:42:31 ON 14 JUN 2006)

FILE 'CAPLUS' ENTERED AT 10:42:36 ON 14 JUN 2006  
E US2003-728679/APPS

L1 1 SEA ABB=ON PLU=ON US2003-728679/AP  
SEL RN

FILE 'REGISTRY' ENTERED AT 10:42:54 ON 14 JUN 2006

L2 14 SEA ABB=ON PLU=ON (706779-05-7/BI OR 111025-46-8/BI OR  
146062-48-8/BI OR 2295-31-0/BI OR 50-99-7/BI OR 708270-71-7/BI  
OR 708270-72-8/BI OR 708270-73-9/BI OR 708310-20-7/BI OR  
708310-21-8/BI OR 708310-22-9/BI OR 708312-79-2/BI OR 708312-80  
-5/BI OR 708312-81-6/BI)  
D SCAN

FILE 'STNGUIDE' ENTERED AT 10:44:49 ON 14 JUN 2006

FILE 'REGISTRY' ENTERED AT 10:48:56 ON 14 JUN 2006

L\*\*\* DEL 0 S C28 H27 N7 O6 S  
L3 18 SEA ABB=ON PLU=ON C28H27N7O6S  
L4 2471201 SEA ABB=ON PLU=ON NC5/ES  
L5 3 SEA ABB=ON PLU=ON L3 AND L4  
D SCAN  
L6 2 SEA ABB=ON PLU=ON L5 NOT NCNC3/ES  
L7 1 SEA ABB=ON PLU=ON L6 NOT N2CNC-NCNC3/ES  
D SCAN  
L8 1 SEA ABB=ON PLU=ON L3 AND NCSC2/ES  
L9 1 SEA ABB=ON PLU=ON (L8 OR L7)  
D BROWSE L9

FILE 'CAPLUS' ENTERED AT 10:56:05 ON 14 JUN 2006

L10 1 SEA ABB=ON PLU=ON L9

FILE 'STNGUIDE' ENTERED AT 10:57:22 ON 14 JUN 2006

L\*\*\* DEL 0 S L3

FILE 'CAPLUS' ENTERED AT 10:58:53 ON 14 JUN 2006

L11 18 SEA ABB=ON PLU=ON L3  
L12 18 SEA ABB=ON PLU=ON (L11 OR L1)  
L13 1 SEA ABB=ON PLU=ON (L10 OR L1)  
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L14 75 SEA ABB=ON PLU=ON ("COLCA J R"/AU OR "COLCA JERRY"/AU OR  
"COLCA JERRY R"/AU OR "COLCA JERRY RAYMOND"/AU)  
E MCDONALD W/AU  
L15 19 SEA ABB=ON PLU=ON ("MCDONALD W"/AU OR "MCDONALD W G"/AU OR  
"MCDONALD WILLIAM"/AU OR "MCDONALD WILLIAM G"/AU OR "MCDONALD  
WILLIAM GERALD"/AU OR "MCDONALD WILLIAM GERARD"/AU)  
L16 4 SEA ABB=ON PLU=ON (L14 AND L15)  
D COST

FILE 'REGISTRY' ENTERED AT 11:27:14 ON 14 JUN 2006

L17 STRUCTURE UPLOADED  
L18 0 SEA SSS SAM L17

FILE 'STNGUIDE' ENTERED AT 11:27:47 ON 14 JUN 2006

FILE 'REGISTRY' ENTERED AT 11:29:07 ON 14 JUN 2006

L19           STRUCTURE UPLOADED  
L20           0 SEA SSS SAM L19  
L21           1 SEA SSS FUL L19

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FILE 'REGISTRY' ENTERED AT 11:31:41 ON 14 JUN 2006  
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L25           STRUCTURE UPLOADED  
L26           0 SEA SSS SAM L25

FILE 'STNGUIDE' ENTERED AT 11:34:57 ON 14 JUN 2006  
              D QUE L17

FILE 'BEILSTEIN' ENTERED AT 11:36:19 ON 14 JUN 2006  
L27           0 SEA SSS FUL L17  
L28           0 SEA SSS FUL L19  
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L29           0 SEA SSS FUL L23

FILE 'REGISTRY' ENTERED AT 11:37:27 ON 14 JUN 2006  
L30           0 SEA SSS SAM L23  
L31           0 SEA SSS SAM L19  
              D QUE L23  
              D QUE L19

FILE 'REGISTRY' ENTERED AT 12:32:25 ON 14 JUN 2006  
              D QUE L23  
              D QUE L25  
              D QUE L19

FILE 'STNGUIDE' ENTERED AT 12:36:19 ON 14 JUN 2006

FILE 'STNGUIDE' ENTERED AT 12:38:24 ON 14 JUN 2006

FILE 'REGISTRY' ENTERED AT 12:55:12 ON 14 JUN 2006  
L32           88114 SEA ABB=ON PLU=ON NCSC2/ES AND NC5/ESS AND C6/ESS  
L33           STRUCTURE UPLOADED  
L34           0 SEA SUB=L32 SSS SAM L33  
L35           1 SEA SUB=L32 SSS FUL L33  
L36           0 SEA SSS SAM L33  
L37           STRUCTURE UPLOADED  
L38           0 SEA SUB=L32 SSS SAM L37  
L39           1 SEA SUB=L32 SSS FUL L37

FILE 'CAPLUS' ENTERED AT 12:58:53 ON 14 JUN 2006  
L40           1 SEA ABB=ON PLU=ON L35  
L41           1 SEA ABB=ON PLU=ON L39  
L42           1 SEA ABB=ON PLU=ON (L40 OR L41 OR L13)

FILE 'BEILSTEIN' ENTERED AT 12:59:38 ON 14 JUN 2006  
L43           2 SEA SSS FUL L33  
              D QUE L19

FILE 'MARPAT' ENTERED AT 13:01:50 ON 14 JUN 2006

L44 0 SEA SSS SAM L19  
L45 0 SEA SSS FUL L19  
D COST  
L46 2 SEA SSS SAM L33

FILE 'STNGUIDE' ENTERED AT 13:04:29 ON 14 JUN 2006

D QUE L19  
D QUE L46 STAT

=> file caplus

FILE 'CAPLUS' ENTERED AT 13:09:35 ON 14 JUN 2006

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FILE COVERS 1907 - 14 Jun 2006 VOL 144 ISS 25

FILE LAST UPDATED: 13 Jun 2006 (20060613/ED)

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<http://www.cas.org/infopolicy.html>

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d que 116

L14 75 SEA FILE=CAPLUS ABB=ON PLU=ON ("COLCA J R"/AU OR "COLCA JERRY"/AU OR "COLCA JERRY R"/AU OR "COLCA JERRY RAYMOND"/AU)  
L15 19 SEA FILE=CAPLUS ABB=ON PLU=ON ("MCDONALD W"/AU OR "MCDONALD W G"/AU OR "MCDONALD WILLIAM"/AU OR "MCDONALD WILLIAM G"/AU OR "MCDONALD WILLIAM GERALD"/AU OR "MCDONALD WILLIAM GERARD"/AU)  
L16 4 SEA FILE=CAPLUS ABB=ON PLU=ON (L14 AND L15)

=> d ibib abs 116 tot

L16 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:515638 CAPLUS

DOCUMENT NUMBER: 141:49385

TITLE: Mitochondrial membrane mitoNEET proteins binding thiazolidindiones and their use in the development of novel antidiabetic agents

INVENTOR(S): Colca, Jerry R.; McDonald, William G.

PATENT ASSIGNEE(S): Pharmacia Corporation, USA

SOURCE: PCT Int. Appl., 116 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004053059	A2	20040624	WO 2003-US37476	20031125
WO 2004053059	A3	20050519		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2508346	AA	20040624	CA 2003-2508346	20031125
AU 2003295843	A1	20040630	AU 2003-295843	20031125
BR 2003016923	A	20051018	BR 2003-16923	20031125
EP 1585391	A2	20051019	EP 2003-787055	20031125
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006515171	T2	20060525	JP 2004-559158	20031125
US 2005043361	A1	20050224	US 2003-728679	20031205
PRIORITY APPLN. INFO.:				
			US 2002-431520P	P 20021206
			WO 2003-US37476	W 20031125

AB A family of mitochondrial membrane proteins, which bind insulin sensitizing, antidiabetic thiazolidinediones, are identified and cDNAs encoding them are cloned. The proteins may be useful as drug targets and methods of identifying ligands for these proteins are identified. The invention further relates to methods useful for treating or modulating metabolic disorders in mammals in need of such biol. effect.

L16 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:152839 CAPLUS

DOCUMENT NUMBER: 140:370397

TITLE: Identification of a novel mitochondrial protein ("mitoNEET") cross-linked specifically by a thiazolidinedione photoprobe

AUTHOR(S): Colca, Jerry R.; McDonald, William G.; Waldon, Daniel J.; Leone, Joseph W.; Lull, June M.; Bannow, Carol A.; Lund, Eric T.; Mathews, W. Rodney

CORPORATE SOURCE: Pharmacia Corporation, Kalamazoo, MI, 49001, USA  
 SOURCE: American Journal of Physiology (2004), 286(2, Pt. 1), E252-E260

CODEN: AJPHAP; ISSN: 0002-9513

PUBLISHER: American Physiological Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Thiazolidinediones address underlying causes of type 2 diabetes, although their mechanism of action is not clearly understood. The compds. are thought to function as direct activators of the nuclear receptor PPAR $\gamma$  (peroxisome proliferator-activated receptor- $\gamma$ ), although pioglitazone, the weaker agonist of the two thiazolidinediones now in clin. use, seems to have more useful effects on circulating lipids. We have used tritiated pioglitazone and a photoaffinity crosslinker to

identify a novel binding site in mitochondria. A saturable binding site for [3H]pioglitazone was solubilized from the membranes with CHAPS and migrated as a large complex by size exclusion chromatog. The binding correlated with a <17-kDa protein (ml7), marked by a photoaffinity crosslinker, in both subcellular location and selectivity of competition by analogs. The protein was isolated and identified by mass spectrometry anal. and N-terminal sequencing. Three synthetic peptides with potential antigenic properties were synthesized from the predicted nontransmembrane sequence to generate antibodies in rabbits. Western blots show that this protein, which we have termed "mitoNEET," is located in the mitochondrial fraction of rodent brain, liver, and skeletal muscle, showing the identical subcellular location and migration on SDS-PAGE as the protein crosslinked specifically by the thiazolidinedione photoprobe. The protein exists in low levels in preadipocytes, and expression increases exponentially in differentiated adipocytes. The synthetic protein bound to solid phase associated with a complex of solubilized mitochondrial proteins, including the trifunctional  $\beta$ -oxidation protein. It is possible that thiazolidinedione modification of the function of the mitochondrial target may contribute to lipid lowering and/or antidiabetic actions.

REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:443562 CAPLUS

DOCUMENT NUMBER: 139:242801

TITLE: Cross-linking in the Living Cell Locates the Site of Action of Oxazolidinone Antibiotics

AUTHOR(S): Colca, Jerry R.; McDonald, William G.; Waldon, Daniel J.; Thomasco, Lisa M.; Gadwood, Robert C.; Lund, Eric T.; Cavey, Gregory S.; Mathews, W. Rodney; Adams, Lonnie D.; Cecil, Eric T.; Pearson, James D.; Bock, Jeffrey H.; Mott, John E.; Shinabarger, Dean L.; Xiong, Liqun; Mankin, Alexander S.

CORPORATE SOURCE: Pharmacia Corp., Kalamazoo, MI, 49001, USA

SOURCE: Journal of Biological Chemistry (2003), 278(24), 21972-21979

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular Biology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Oxazolidinone antibiotics, an important new class of synthetic antibacterials, inhibit protein synthesis by interfering with ribosomal function. The exact site and mechanism of oxazolidinone action has not been elucidated. Although genetic data pointed to the ribosomal peptidyltransferase as the primary site of drug action, some biochem. studies conducted in vitro suggested interaction with different regions of the ribosome. These inconsistent observations obtained in vivo and in vitro have complicated the understanding of oxazolidinone action. To localize the site of oxazolidinone action in the living cell, we have cross-linked a photoactive drug analog to its target in intact, actively growing *Staphylococcus aureus*. The oxazolidinone cross-linked specifically to 23 S rRNA, tRNA, and two polypeptides. The site of crosslinking to 23 S rRNA was mapped to the universally conserved A-2602. Polypeptides cross-linked were the ribosomal protein L27, whose N terminus may reach the peptidyltransferase center, and LepA, a protein homologous to translation factors. Only ribosome-associated LepA, but not free protein,

was cross-linked, indicating that LepA was cross-linked by the ribosome-bound antibiotic. The evidence suggests that a specific oxazolidinone binding site is formed in the translating ribosome in the immediate vicinity of the peptidyltransferase center.

REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:539929 CAPLUS

DOCUMENT NUMBER: 137:106476

TITLE: Oxazolidinone photoaffinity probes, uses and compounds

INVENTOR(S): Colca, Jerry R.; McDonald, William

Gerald; Shinabarger, Dean L.

PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002056013	A2	20020718	WO 2001-US48455	20011214
WO 2002056013	A3	20031106		
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2432162	AA	20020718	CA 2001-2432162	20011214
EP 1386153	A2	20040204	EP 2001-993282	20011214
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2004537265	T2	20041216	JP 2002-556217	20011214
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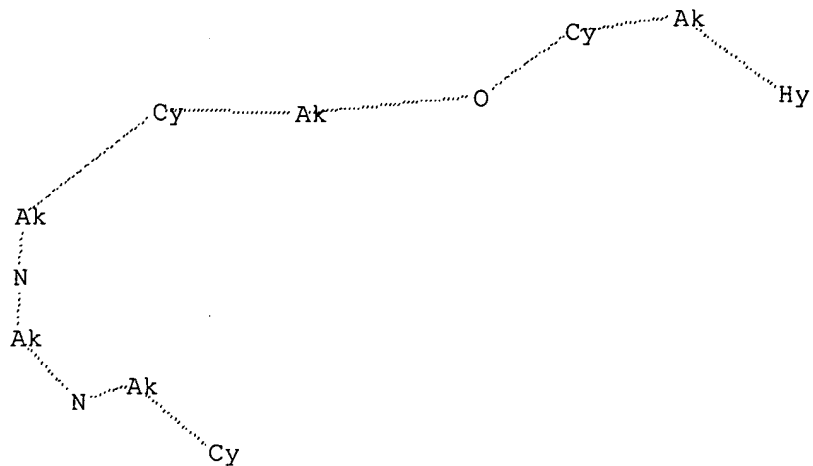
OTHER SOURCE(S): MARPAT 137:106476

AB Disclosed are novel methods of identifying biol. targets of compds. that have antimicrobial activity. Also disclosed are novel methods of identifying compds. that can have antimicrobial activity.

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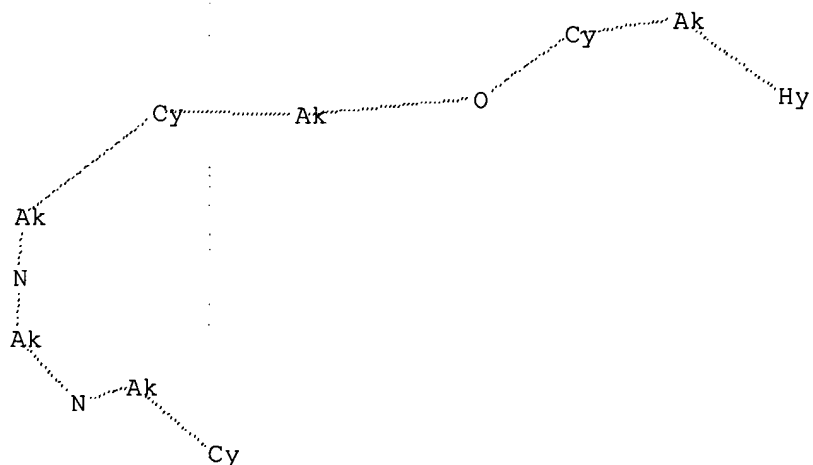
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L5	3	SEA FILE=REGISTRY ABB=ON	PLU=ON	L3 AND L4
L6	2	SEA FILE=REGISTRY ABB=ON	PLU=ON	L5 NOT NCNC3/ES
L7	1	SEA FILE=REGISTRY ABB=ON	PLU=ON	L6 NOT N2CNC-NCNC3/ES
L8	1	SEA FILE=REGISTRY ABB=ON	PLU=ON	L3 AND NCSC2/ES
L9	1	SEA FILE=REGISTRY ABB=ON	PLU=ON	(L8 OR L7)
L10	1	SEA FILE=CAPLUS ABB=ON	PLU=ON	L9
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L32 88114 SEA FILE=REGISTRY ABB=ON PLU=ON NCSC2/ES AND NC5/ESS AND  
C6/ESS  
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L35 1 SEA FILE=REGISTRY SUB=L32 SSS FUL L33  
L37 STR



Structure attributes must be viewed using STN Express query preparation.

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L41 1 SEA FILE=CAPLUS ABB=ON PLU=ON L39  
L42 1 SEA FILE=CAPLUS ABB=ON PLU=ON (L40 OR L41 OR L13)

=> d ibib abs hitstr l42 tot

L42 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2004:515638 CAPLUS  
DOCUMENT NUMBER: 141:49385  
TITLE: Mitochondrial membrane mitoNEET proteins binding  
thiazolidindiones and their use in the development of

novel antidiabetic agents  
 INVENTOR(S): Colca, Jerry R.; McDonald, William G.  
 PATENT ASSIGNEE(S): Pharmacia Corporation, USA  
 SOURCE: PCT Int. Appl., 116 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004053059	A2	20040624	WO 2003-US37476	20031125
WO 2004053059	A3	20050519		
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RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
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BR 2003016923	A	20051018	BR 2003-16923	20031125
EP 1585391	A2	20051019	EP 2003-787055	20031125
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US 2005043361	A1	20050224	US 2003-728679	20031205 <--
PRIORITY APPLN. INFO.:			US 2002-431520P	P 20021206
			WO 2003-US37476	W 20031125

AB A family of mitochondrial membrane proteins, which bind insulin sensitizing, antidiabetic thiazolidinediones, are identified and cDNAs encoding them are cloned. The proteins may be useful as drug targets and methods of identifying ligands for these proteins are identified. The invention further relates to methods useful for treating or modulating metabolic disorders in mammals in need of such biol. effect.

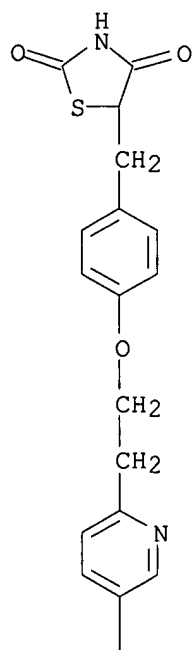
IT **706779-05-7DP**, I125-labeled  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (as affinity probe; mitochondrial membrane mitoNEET proteins binding thiazolidindiones and their use in development of novel antidiabetic agents)

RN 706779-05-7 CAPLUS

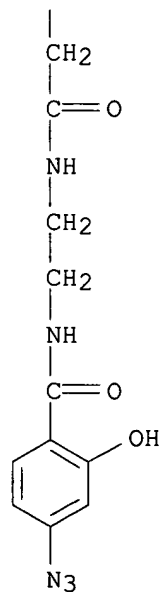
CN 3-Pyridineacetamide, N-[2-[(4-azido-2-hydroxybenzoyl)amino]ethyl]-6-[2-[4-[(2,4-dioxo-5-thiazolidinyl)methyl]phenoxy]ethyl]- (9CI) (CA INDEX NAME)



PAGE 1-A



PAGE 2-A



IT **706779-05-7P**

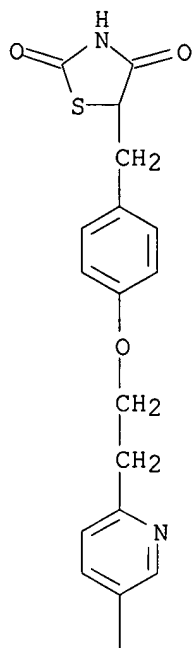
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and radioiodination of, in preparation affinity probe; mitochondrial

membrane mitoNEET proteins binding thiazolidindiones and their use in development of novel antidiabetic agents)

RN 706779-05-7 CAPLUS

CN 3-Pyridineacetamide, N-[2-[(4-azido-2-hydroxybenzoyl)amino]ethyl]-6-[2-[4-[(2,4-dioxo-5-thiazolidinyl)methyl]phenoxy]ethyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

